

**TABLE A-VI/3 Record of Assessment**  
**Specification of minimum standard of competence in Advanced Fire Fighting**

Column 1 STCW Competence	Column 2 Performance Objectives	Column 3 Performance Measures (Mariner knowledge or action including consequences of same) Demonstration or Oral/Written Exam	Column 4 Performance Standards (Criteria against which performance is measured)	Date Of Assessment	Assessor's Initials	T / P
Control fire-fighting operations aboard ships	Fire-Fighting procedures at sea and in port with particular emphasis on organization, tactics, and command	<ul style="list-style-type: none"> <li>◆ Identify the Station Bills role in fire fighting organization including fire and emergency signals</li> <li>◆ Identify the goals of organization as               <ol style="list-style-type: none"> <li>1. Get personnel to the scene quickly</li> <li>2. Identify hazards/Protect fire fighters</li> <li>3. Extinguish fires quickly</li> </ol> </li> <li>◆ Identify and define the roles of a typical fire fighting organization aboard ships as;               <ol style="list-style-type: none"> <li>1. Command Group</li> <li>2. On-Scene Group</li> <li>3. Support Group</li> </ol> </li> <li>◆ Identify the symbols found in a fire control plan</li> <li>◆ Identify the phases of Shipboard Fire Fighting as               <ol style="list-style-type: none"> <li>1. Initial assessment</li> <li>2. Confinement</li> <li>3. Extinguishment</li> <li>4. Overhaul</li> </ol> </li> </ul>	<p><b>All Practical Evaluations will be in accordance with ship's fire control plan and doctrine.</b></p> <p style="text-align: right;"><input type="checkbox"/></p> <p>Students must successfully complete a written examination with a 70% accuracy or better</p> <p style="text-align: right;"><input type="checkbox"/></p> <p><u>Practical Evaluation:</u></p> <ul style="list-style-type: none"> <li>◆ Complete an exercise on extracting information from a completed Fire Control Plan to include:               <ol style="list-style-type: none"> <li>1. General Information specific to the ship</li> <li>2. Physical properties of the ship</li> <li>3. Emergency contacts</li> <li>4. Location of instruments and controls</li> <li>5. Location of fire fighting equipment</li> <li>6. System information</li> <li>7. Tactics</li> </ol> </li> </ul> <p style="text-align: right;"><input type="checkbox"/></p>			

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		<ul style="list-style-type: none"> <li>◆ Demonstrate the ability to extract information from a completed Fire Control Plan</li> <li>◆ Demonstrate an understanding of the roles of the following in combating an in port fire and working with local Fire departments and other agencies               <ol style="list-style-type: none"> <li>1. Advantages/disadvantages of bringing shoreside fire fighters aboard</li> <li>2. Authority/command and control</li> <li>3. Notifications</li> <li>4. Emergency procedures</li> <li>5. Legal issues</li> </ol> </li> <li>◆ During a fire response scenario as member of ships crew demonstrate:               <ol style="list-style-type: none"> <li>1. Ability to control and extinguish extensive deck fires</li> <li>2. Ability to control and extinguish Extensive accommodation fires</li> <li>3. Ability to control and extinguish extensive engine room fires</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>◆ <u>Practical Assessment:</u> <input type="checkbox"/></li> <li>1. Actions taken to control fires are based on a full and accurate assessment of the incident using all available sources of information</li> <li>2. The order of priority, timing and sequence of actions are appropriate to the overall requirements of the incident and to minimize damage and potential damage to the ship, injuries to personnel and impairment of the operational effectiveness of the ship <input type="checkbox"/></li> <li>3. Transmission of information is prompt accurate, complete and clear <input type="checkbox"/></li> <li>4. Personal safety during fire control activities is safeguarded at all times</li> </ul>			

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	Use of water for fire fighting, the effect on ship stability, precautions and corrective procedures.	<ul style="list-style-type: none"> <li>◆ Define Stability including GM and free surface effect</li> <li>◆ Describe the potential effects of fire fighting efforts on a vessel's stability</li> <li>◆ Define the six vessel motions as               <ol style="list-style-type: none"> <li>1. Pitch</li> <li>2. Roll</li> <li>3. Yaw</li> <li>4. Heave</li> <li>5. Surge</li> <li>6. Sway</li> </ol> </li> <li>◆ Identify six (6) corrective measures to decrease the effects of fire fighting water on a ship's stability to include:               <ol style="list-style-type: none"> <li>1. Establish flood boundaries</li> <li>2. Remove water from partially flooded areas</li> <li>3. Remove topside weight</li> <li>4. Remove water from completely flooded areas</li> <li>5. Transfer weight to counterbalance</li> <li>6. Counterflood</li> </ol> </li> </ul>	<p><u>Written Assessment:</u></p> <p>Students must successfully complete a written examination with a 70% accuracy or better</p>			

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		<ul style="list-style-type: none"> <li>◆ Describe five (5) methods that can be used while fighting a fire to reduce the effects of vessel stability to include:               <ol style="list-style-type: none"> <li>1. Prudent use of fire fighting water</li> <li>2. Rapid establishment of flooding boundaries, horizontal &amp; vertical</li> <li>3. Reduce free surface effect</li> <li>4. Weight transfer</li> <li>5. Weight addition</li> </ol> </li> <li>◆ Demonstrate the ability to apply water to a fire using the correct technique for the evolution:               <ol style="list-style-type: none"> <li>1. Straight stream to the overhead</li> <li>2. Fog pattern to the overhead</li> <li>3. Low velocity fog for protection</li> <li>4. High velocity fog for cooling structure</li> <li>5. Straight stream at the base of a Class 'A' Fire</li> </ol> </li> </ul>	<u>Practical Assessment</u> <input type="checkbox"/> <ol style="list-style-type: none"> <li>1. Actions taken to control fires are based on full and accurate assessment of the incident using all available sources of information</li> <li>2. The order of priority, timing and sequence of actions are appropriate to the overall requirements of the incident and to minimize damage and potential damage to the ship, injuries to personnel and impairment of the operational effectiveness of the ship <input type="checkbox"/></li> <li>3. Transmission of information is prompt, accurate, complete and clear. <input type="checkbox"/></li> <li>4. Personal safety during the fire control activities is safeguarded at all times</li> </ol>			

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	Communication and co-ordination during fire-fighting operations	<ul style="list-style-type: none"> <li>◆ Identify communication requirements for the Command Group as               <ol style="list-style-type: none"> <li>1. Location/class of fire</li> <li>2. Extent</li> <li>3. Personnel on-scene</li> <li>4. Extinguishment measures</li> <li>5. Boundaries</li> <li>6. Location of hazardous materials</li> <li>7. Progress updates</li> <li>8. Time fire is out</li> <li>9. Reflash watch set</li> </ol> </li> <li>◆ Identify communication requirements for On-Scene Group as               <ol style="list-style-type: none"> <li>1. Location of remote stops/trips/etc.</li> <li>2. Ventilation controls/dampers etc.</li> <li>3. Boundary information/reminders</li> <li>4. Update pre-plan check-list</li> <li>5. Muster report</li> </ol> </li> <li>◆ Identify communication requirements for Support Groups as               <ol style="list-style-type: none"> <li>1. Location/class of fire</li> <li>2. Additional equipment requirements</li> <li>3. Location of staging areas</li> </ol> </li> </ul>	<p><u>Written Assessment:</u></p> <p>Students must successfully complete a written examination with a 70% accuracy or better</p>			

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		<ul style="list-style-type: none"> <li>◆ Identify the types of internal systems used aboard a ship to relay information during a fire emergency to include:               <ol style="list-style-type: none"> <li>1. General Alarm and ships whistle</li> <li>2. Portable radio</li> <li>3. Ships service dial telephone</li> <li>4. Sound Powered telephone</li> <li>5. Public address system</li> <li>6. Talk back system</li> <li>7. Voice tubes</li> <li>8. VHF Radio</li> </ol> </li> <li>◆ Identify the means of communication to shore based personnel or other vessel, to include;               <ol style="list-style-type: none"> <li>1. VHF radio</li> <li>2. GMDSS, DSC &amp; Distress alarm</li> <li>3. EPIRB</li> <li>4. SART</li> <li>5. Cell/Satellite telephone</li> <li>6. Land line / Alarm Box</li> </ol> </li> <li>◆ Demonstrate effective communications during a fire extinguishing exercise, to include:               <ol style="list-style-type: none"> <li>1. Set up fire party and Emergency Squad, assign duties</li> </ol> </li> </ul>	<div> <u>Practical Assessment:</u> <input type="checkbox"/> </div> <ol style="list-style-type: none"> <li>1. Fire party established consistent with station bill &amp; threat assessment <input type="checkbox"/></li> <li>2. Effective communications established and maintained throughout exercise <input type="checkbox"/></li> <li>3. Identified critical communications elements are communicated clearly, concisely &amp; timely</li> <li>4. Transmission of information is prompt, accurate, complete and clear</li> </ol>			

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		2. Communicate information to on-scene leader, including 3. Fire party's position 4. Smoke, heat and fire information 7. Power secured to space 8. Attack team entering space 9. Extinguishing agent applied to fire 10. Fire extinguished 11. Reflash watch set 12. Ventilation process 13. Overhaul completed  ♦ During a fire response scenario as a member of a ships crew, demonstrate the ability to effectively communicate necessary information up and down the chain of command through any available and appropriate means i.e. portable radios, messengers, general alarm and ships whistle				
	Ventilation control, including smoke extractor	♦ Compare positive and negative methods of ventilation  ♦ As a member of a fire attack team, demonstrate the ability to effectively ventilate a smoke filled space	<u>Written Assessment:</u>  Students must successfully complete a written examination with a 70% accuracy or better <input type="checkbox"/>			

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		<ul style="list-style-type: none"> <li>◆ Identify the methods of ventilation, to include;               <ol style="list-style-type: none"> <li>1. Natural ventilation</li> <li>2. Portable ventilation equipment</li> <li>3. Ship's ventilation equipment</li> </ol> </li> <li>◆ List the precautions necessary when using an installed ventilation system to include:               <ol style="list-style-type: none"> <li>1. Cool the space sufficiently</li> <li>2. Remove the fuel</li> <li>3. Use a blanket of foam to reduce vapors</li> <li>4. Inspect ventilation system to ensure there has been no fire damage</li> <li>5. Use positive pressure in the adjoining space to ventilate space</li> </ol> </li> <li>◆ Discuss the use of a portable smoke curtain</li> <li>◆ Demonstrate the ability to maintain ventilation control.               <ol style="list-style-type: none"> <li>1. Electric Smoke Ejector                   <ol style="list-style-type: none"> <li>a. Decide whether to use positive or negative ventilation.</li> </ol> </li> </ol> </li> </ul>	<p><u>Practical Assessment:</u> <input type="checkbox"/></p> <ol style="list-style-type: none"> <li>1. Rationale for use of selected ventilation method (positive or negative) is sound <input type="checkbox"/></li> <li>2. Electric ejector is properly set up given the selected pressure environment <input type="checkbox"/></li> <li>3. Water powered ejector is properly set up given the selected pressure environment.</li> </ol>			



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		b. If negative set up smoke ejector at the opening of the space c. If positive set up smoke ejector in front of the opening d. Verify power is available e. Verify power cords are safe f. Verify smoke ejector is set for the desired method of ventilation (For negative ventilation: suction is drawn on space. For positive ventilation: Pressure is applied) 2. Water Powered Ejector a. Decide whether to use positive or negative ventilation b. If negative: set up smoke ejector at the opening of the space c. If positive: set up smoke ejector in front of the opening d. Verify water hoses are connected to ejector properly e. Verify smoke ejector is set for the method of ventilation desired.				
	Control of fuel and	◆ Demonstrate the ability to control	<u>Practical Assessment:</u>			

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	electrical systems	the flow of fuel and electricity 1. Find fuel shutoffs or electrical panels 2. Secure fuel or power 3. Lock-Out / Tag-Out secure circuits 4. Report to the person in charge	1. Find fuel shutoffs or electrical panels <input type="checkbox"/> 2. Secure fuel/Power <input type="checkbox"/> 3. Use proper Lock-Out/Tag-Out procedures <input type="checkbox"/> 4. Communicate relevant information to person in charge <input type="checkbox"/>			
	Fire-fighting process hazards (dry distillation, chemical reactions, boiler uptake fires, etc.)	<ul style="list-style-type: none"> <li>◆ Describe potential hazards associated with the overhaul phase including;               <ul style="list-style-type: none"> <li>1. Reflash</li> <li>2. Cooling</li> <li>3. Atmospheric testing</li> <li>4. De-watering</li> <li>5. Overhaul/remove damaged materials</li> </ul> </li> <li>◆ Discuss the effects of dry distillation</li> <li>◆ Describe the preventative measures to reduce the risks associated with stack or uptake fires</li> </ul>	<u>Written Assessment:</u>  Students must successfully complete a written examination with a 70% accuracy or better <input type="checkbox"/>			
	Fire-fighting involving dangerous goods	<ul style="list-style-type: none"> <li>◆ Discuss the potential dangers of fighting a fire near hazardous</li> </ul>	<u>Written Assessment:</u>			

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		materials, to include: 1. Chemical reactions 2. Health hazards 3. Fire hazards 4. Oxidizing cargoes 5. Self-heating cargoes 6. Phosphorus 7. Bulk cargoes 8. Pyrophoric cargoes  ♦ Cargo separation	Students must successfully complete a written examination with a 70% accuracy or better <input type="checkbox"/>			
	Fire precautions and hazards associated with the storage and handling of materials (paints, etc.)	♦ Identify labeling & placarding systems including: 1. NFPA Diamond 2. UN/IMO/DOT Labels 3. UN/IMO/DOT Placards  ♦ Hazard class definitions  ♦ Identify resource publications including: 1. MSDS 2. CHRIS 3. NIOSH Pocket Guide 4. NAERG 5. CFR 6. Chemical Data Guide 7. IMDG Code 8. EMS Guide	<u>Written Assessment:</u>  Students must successfully complete a written examination with a 70% accuracy or better <input type="checkbox"/>			

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		9. Shipboard ER Manual 10. Dangerous Cargo Manifest  ♦ Identify the references to hazardous materials found in the Code of Federal Regulations, to include: 1. 49 CFR 172 2. IMDG Code 3. 46 CFR 153				
	Management and control of injured persons	♦ Demonstrate the procedure for search and rescue under zero visibility conditions. 1. Perform systematic search using the proper technique a. Using a two person team, enter building on hands and knees b. Declare which direction will be searched (to the right, left or forward) c. Person 'A' crawls on his/her hands and knees , sweeping the area for victims with his/her left hand d. Person 'B' crawls behind and to the right or left of Person 'A,' holding Person 'A's' ankle with his/her left/right hand, while sweeping the area with opposite hand	<u>Practical Assessment:</u>  1. A systematic search is conducted using the principals taught in class, ensure points 'd' through 'g' are demonstrated <input type="checkbox"/>  2. Account for all personnel during muster process. <input type="checkbox"/>			

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		e. Locate and remove victims using the Fireman's Drag or the Blanket Drag ♦ As part of a response team perform an effective muster, identify missing persons, assign appropriate resources to locate, remove from danger, and render aid to victims				
	Procedures for co-ordination with shore-based fire fighters	♦ Describe the roles and responsibilities of the fire party members in coordination with a shore based fire department ♦ Discuss the function of the command post ♦ Describe the roles and responsibilities of various agencies and parties involved in the response to a ship fire in port ♦ Describe the responsibilities of the ship crew members when coordinating fire suppression activities with shore side firefighters	<u>Written Assessment:</u>  Students must successfully complete a written examination with a 70% accuracy or better. Based on procedures outlined in NFPA - 1405 <input type="checkbox"/>			
Organize and train fire parties	Preparation of contingency plans	♦ Demonstrate the ability to train and drill ships crew	Practical exercises and instruction conducted under approved and truly realistic training conditions, e.g. <input type="checkbox"/>			

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		<ul style="list-style-type: none"> <li>◆ Identify reasons for developing contingency plans including;               <ol style="list-style-type: none"> <li>1. Training tool</li> <li>2. Provide info to new employees</li> <li>3. Aid in managing fire ops.</li> <li>4. Information resource</li> </ol> </li> <li>◆ Identify fire plan requirements including;               <ol style="list-style-type: none"> <li>1. Required by law                   <ol style="list-style-type: none"> <li>a. 46 CFR 78.45 &amp; 97.36</li> <li>b. SOLAS requirements</li> <li>c. 46 CFR 35.10-3</li> </ol> </li> <li>2. Must encompass entire ship</li> <li>3. Contain info on all fire fighting systems</li> <li>4. Usually located at gangway</li> <li>5. Provide plan for shore side fire departments</li> </ol> </li> <li>◆ Discuss Preplan development including the identification of;               <ol style="list-style-type: none"> <li>1. Vulnerable areas (sectors) first</li> <li>2. Compartments within sectors</li> <li>3. HAZMAT locations</li> <li>4. Exposures</li> </ol> </li> </ul>	<p>simulated shipboard conditions-</p> <p><u>Written Assessment:</u> <span style="float: right;"><input type="checkbox"/></span></p> <p>Students must successfully complete a written examination with a 70% accuracy or better</p>			

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		5. Ventilation and electrical system details  6. Location of all firefighting stations and equipment 7. Location of all dewatering equip. 8. Location of remote cut-off/trips  ♦ Describe the training process for fire party members  ♦ List the necessary components of the lesson plans used for training fire parties  ♦ Discuss guidelines for effective training sessions to include; 1. Preparation 2. Presentation 3. Confirmation of transfer  ♦ Discuss USCG training and drill requirements outlined in 1. 46 CFR10.205(g) 2. 46 CFR 199.180				
	Composition and allocation of personnel	♦ Describe each position of the ship's fire party organization , to include:	<u>Written Assessment:</u>			

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	to fire parties	<ol style="list-style-type: none"> <li>1. Master / OIC</li> <li>2. On-scene leader</li> <li>3. Team leader</li> <li>4. Nozzleman</li> <li>5. Back-up person</li> <li>6. Crew member</li> </ol> <ul style="list-style-type: none"> <li>◆ Describe the fire control plans, muster stations and duties</li> <li>◆ As a member of the crew, demonstrate the ability to successfully plan and conduct a fire drill</li> <li>◆ Assign and instruct fire party personnel</li> </ul>	<p>Students must successfully complete a written examination with a 70% accuracy or better <input type="checkbox"/></p>			
	Strategies and tactics for control of fires in various parts of the ship	<ul style="list-style-type: none"> <li>◆ Describe the tactics of controlling a fire in various parts of the ship, to include: <ol style="list-style-type: none"> <li>1. Berthing spaces</li> <li>2. Machinery areas</li> <li>3. Oil spray areas</li> <li>4. Areas with electrical equipment</li> <li>5. Tanks (fuel and cargo)</li> <li>6. Cargo holds</li> </ol> </li> <li>◆ Demonstrate a working knowledge of</li> </ul>	<p><u>Written Assessment:</u></p> <p>Students must successfully complete a written examination with a 70% accuracy or better <input type="checkbox"/></p> <p><u>Practical Assessment:</u></p> <p>1. Actions Taken to control fires are based on a full and accurate assessment of the incident using all available resources <input type="checkbox"/></p>			



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		<p>the strategies and tactics used to fight fires in various areas of the vessel, i.e. tactical components</p> <ol style="list-style-type: none"> <li>1. size up</li> <li>2. rescue</li> <li>3. exposure protection</li> <li>4. confinement</li> <li>5. extinguishment</li> <li>6. overhaul</li> <li>7. salvage</li> <li>8. ventilation</li> </ol>	<ol style="list-style-type: none"> <li>2. The order of priority, timing and sequence of actions are appropriate to the overall requirements of the incident and to minimize damage and potential damage to the ship, injuries to personnel and impairment of the operational effectiveness of the ship <input type="checkbox"/></li> <li>3. Transmission of information is prompt, accurate, complete and clear.</li> <li>4. Personal safety during the fire control activities is safeguarded at all times</li> </ol>			
Inspect and service fire-detection and extinguishing systems and equipment	<p>Fire-detection systems; fixed fire-extinguishing systems; portable and mobile fire-extinguishing equipment</p> <p>Including appliances, pumps and rescue, salvage, life-support, personal protective and communication equipment.</p>	<p>◆ Demonstrate an understanding of the operation, inspection and maintenance requirements of the following systems:</p> <ol style="list-style-type: none"> <li>1. Automatic fire detection systems including;               <ol style="list-style-type: none"> <li>a. Bi-metallic strip detectors</li> <li>b. Snap-action bi-metallic disks</li> <li>c. Thermoelectric detectors</li> </ol> </li> <li>2. Fixed temperature detectors including;               <ol style="list-style-type: none"> <li>a. Fusible metal</li> <li>b. Liquid expansion</li> <li>c. Thermostatic cable</li> </ol> </li> <li>3. Smoke detectors including;</li> </ol>	<p><u>Written Assessment:</u></p> <p>Students must successfully complete a written examination with a 70% accuracy or better <input type="checkbox"/></p>			

**TABLE A-VI/3 Record of Assessment**

## Specification of minimum standard of competence in Advanced Fire Fighting

**Name** \_\_\_\_\_

**Soc. Sec. No.** \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Column 1 STCW Competence	Column 2 Performance Objectives	Column 3 Performance Measures (Mariner knowledge or action including consequences of same) Demonstration or Oral/Written Exam	Column 4 Performance Standards (Criteria against which performance is measured)	Date Of Assessment	Assessor's Initials	T / P
		a. Photoelectric b. Refraction type photoelectric c. Ionization d. Cloud chamber e. Smoke sampler 4. Manual Fire Alarm Systems 5. Fire main systems including a. Hydrants b. Single riser systems c. Horizontal loop systems 6. CO2 systems including a. Total flooding b. Local/cargo c. 7. Foam Systems including; a. Internal systems b. Deck systems c. Bilge flooding system 8. Galley systems including; a. APC Systems b. Dry chemical systems c. CO2 systems 9. Halon systems 10. Sprinkler systems ♦ Demonstrate the ability to inspect fire fighting equipment, to include: 1. Water Sprinkler: a. Sprinkler head is clear of	<div style="text-align: right;">□</div> <div style="text-align: right;">□</div> <u>Practical Assessment:</u> 1. Practical exercise using approved equipment and systems in a realistic training environment 2. Operational effectiveness of fire detection and extinguishing systems and equipment is maintained at all times in accordance with performance specifications and legislative requirements			

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		objects, storage, etc. b. Piping is secure with no missing brackets 2. Co2 System: a. Discharge nozzle is clear of objects, storage etc. b. Piping is secure with no missing brackets 3. Foam Extinguisher a. Correct pressure on gauge b. Pin is in place and sealed c. Hose is in good shape with no evidence of cracking or dry rot d. Nozzle is in good shape with no obstructions evident e. Extinguisher container has no damage f. Inspection tag is in place and current. 4. CO2 Fire Extinguisher: a. Extinguisher is within the Hydrostatic Test period b. Pin is in place and sealed c. Hose is in good shape with no evidence of cracking d. Nozzle is in good shape with no obstructions evident e. Extinguisher container has no damage				

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		f. Inspection tag attached/current g. Weight of extinguisher is accurate 5. Dry Chemical Fire Extinguisher: a. Pin is in place and sealed b. Hose is in good shape with no evidence of cracking or dry rot c. Nozzle is in good shape with no obstructions evident d. Extinguisher container has no damage e. Inspection tag is in place and current 6. All-Purpose Nozzle: a. Gasket is in the female connection b. Bale works smoothly c. No paint is on the nozzle 7. Portable Pump: a. Strainer is in place and clean b. Electric cord is in good condition with no visible cracks c. Stuffing tube for electrical cord is in good condition d. Rope is available to lower pump into space 8. Personal Protective Clothing: a. Trousers and jacket are in good				

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		condition with no evidence of tears or holes b. Liner is in place c. PPE is clean d. Boots have no evidence of rips or holes e. Gloves have no evidence of rips or holes f. Hood is not stretched out and has no evidence of rips or holes g. Helmet has neck and ear protection chin strap and eye protection shield. The shell of the helmet is good condition. The impact straps are in place and in good condition. 9. SCBA: a. Cylinder is fully charged b. Straps are in good condition c. Regulator hose connections are connected properly d. Hydrostatic Test date on cylinder e. Face piece webbing is in good condition f. No evidence of cracking or dry rot on low pressure hose g. Rubber on the face piece has no				

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		paint, grease or evidence of dry rot h. Proper face seal i. Low pressure alarm is operative 10. Communication Equipment a. Case of the equipment has no cracks b. Battery shows no signs of corrosion c. Antenna shows no evidence of damage d. Control knobs are all in place e. Portable communication equipment , i.e. walkie talkie, have been safety checked				
	Requirements for statutory and classification surveys	♦ State the inspection and servicing requirements for the following: 1. Fire detection systems 2. Portable fire extinguishers 3. Fixed fire extinguishing systems 4. Portable fire fighting equipment	<u>Written Assessment:</u>  Student must successfully complete a written examination with a 70% accuracy or better <input type="checkbox"/>			
Investigate and compile reports on incidents involving fire	Assessment of cause of incidents involving fire	♦ Practical exercise in a realistic training environment  ♦ Identify the components of an investigation including: 1. Principles 2. Investigator requirements	<u>Written Assessment:</u>  Students must successfully complete a <input type="checkbox"/>			

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## Specification of minimum standard of competence in Advanced Fire Fighting

Name \_\_\_\_\_ Soc. Sec. No. \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

<b>Column 1</b> <b>STCW</b> <b>Competence</b>	<b>Column 2</b> <b>Performance</b> <b>Objectives</b>	<b>Column 3</b> <b>Performance Measures</b> <b>(Mariner knowledge or action including</b> <b>consequences of same) Demonstration</b> <b>or Oral/Written Exam</b>	<b>Column 4</b> <b>Performance Standards</b> <b>(Criteria against which performance is</b> <b>measured)</b>	<b>Date</b> <b>Of</b> <b>Assessment</b>	<b>Assessor's</b> <b>Initials</b>	<b>T</b> <b>/</b> <b>P</b>
		3. Instruments 4. Procedures  ♦ Perform as a member of a post fire investigation team  ♦ Summarize the Code of Federal Regulations reporting requirements to include: 1. 46 CFR 4.05-1: Notice of Marine Casualties 2. 46 CFR 4.05-5: Substance of Marine Casualties Notice 3. 46 CFR 4.05-10: Written Report of Marine Casualty  ♦ List key questions that should be asked during a shipboard fire investigation ♦ Identify the necessary components of the investigation report  ♦ Demonstrate the ability to successfully identify the cause of a fire, preventative measures, and the effectiveness of counter measures for fuel, electrical, metal, and trash fires	<p>written examination with a 70% accuracy or better</p> <div style="text-align: right;">□</div> <p><u>Practical Assessment:</u></p> <p>Causes of fire are identified and the effectiveness of the countermeasure are accurately evaluated</p>			

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T/P Column – T designates that this competency will be evaluated with a written test question and is not evaluated on this form but the score will be marked on the last sheet of this form, P designates that this competency will be evaluated with a practical skills evolution.

***Identification Page***

Written evaluation score \_\_\_\_\_ on an exam conducted on \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ at \_\_\_\_\_

and proctored and graded by \_\_\_\_\_ Proctor's Identification Number \_\_\_\_\_

**The individual(s) identified here confirm that his or her initials certify they witnessed the practical demonstration of a particular task or skill by the candidate.**

<b>Assessor's Initials</b>	<b>Assessor Printed Name</b>	<b>Assessor Signature</b>	<b>Assessor's License or ID number</b>	<b>Organization or Vessel</b>



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